

(19)



JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11) Publication number: **61107306 A**(43) Date of publication of application: **26.05.86**

(51) Int. Cl.

**G02B 6/44**  
**C03C 25/04**
(21) Application number: **59230548**(71) Applicant: **OBA MASAHARU**(22) Date of filing: **31.10.84**(72) Inventor: **OBA MASAHARU**
**(54) OPTICAL FIBER COATED WITH METALLIC PIPE**  
**AND ITS PRODUCTION**
**(57) Abstract:**

**PURPOSE:** To improve the tensile strength, compression strength and shearing strength of an optical fiber sharply and to attain complex bending work too by coating the optical fiber with a metallic pipe.

**CONSTITUTION:** The optical fiber 1 is used as an optical waveguide at the time of optical communication. The glass-made optical fiber 1 is coated especially with a casing 2 such as vinyl, nylon or urethane having elasticity to protect the glass-made optical fiber 1 from the direct application of external shock. A thin pipe is generally used as an anticorrosive metallic pipe 3 made of stainless, titanium or aluminum alloy and the metallic pipe 3 loosely engaged with the optical fiber 1 is adhered with the optical fiber 1 by inserting the optical fiber into the inner diameter of the pipe 3 and drawing out and stopping the pipe 3.

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